

**ABSTRACT**

To miniaturize and standardize an on-vehicle electronic controller by improving an input filter circuit in the device. Direct input interface circuits and a direct output interface circuit are connected to a data bus of a microprocessor, which has a nonvolatile memory for storing a control program and so on and a RAM memory for computing. ON/OFF signals inputted from indirect input interface circuits are transmitted to the RAM memory via a variable filter circuit, in which a filter constant is set by a constant setting register, and interactive serial communication circuits. A filter constant stored in the nonvolatile memory is stored in the constant setting register via the interactive serial communication circuits.

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